



FTP and Technical Documentation

FTP Instructions

Files are located on the EPA FTP website (ftp.epa.gov). They can be FTPed directly using the following information:

1. **Host name**: ftp.epa.gov

2. **User ID**: anonymous

3. Password: your email address

4. **Subdirectory:** /rcrainfodata/rcra_flatfiles

Corrective Action Module Flat File Information

A1.DAT through A7.DAT

Flat File Specification (A) Corrective Action Module

A1 - AAREA

File Name: A1.DAT

Primary Key for AAREA:

No.	Pos.	Data Element Name	Type	Size
1	1	EPA Handler ID	Alphanumeric	12
2	13	Area Sequence Number	Alphanumeric	4

Data Elements for AAREA:

No.	Pos.	Data Element Name	Type	Size
3	17	Area Facility-wide Indicator	Alphanumeric	1
4	18	Regulated Unit Indicator	Alphanumeric	1
5	19	Area Name	Alphanumeric	40

A2 - AEVENT

File Name: A2.DAT

Primary Key for AEVENT:

No.	Pos.	Data Element Name	Type	Size
1	1	EPA Handler ID	Alphanumeric	12
2	13	Event Sequence Number	Alphanumeric	3
3	16	Event Responsible Agency	Alphanumeric	1
4	17	Event Activity Location	Alphanumeric	2
6	27	Corrective Action Event Owner	Alphanumeric	2
7	29	Corrective Action Event Code	Alphanumeric	7

Data Elements for AEVENT:

No.	Pos.	Data Element Name	Type	Size
5	19	Actual Date of Event	Date: YYYYMMDD	8

A3 - ACA_AUTHORITY

File Name: A3.DAT

Primary Key for ACA_AUTHORITY:

No.	Pos.	Data Element Name	Type	Size
1	1	EPA Handler ID	Alphanumeric	12
2	13	Effective Date	Date: YYYYMMDD	8
3	21	Responsible Agency	Alphanumeric	1
7	39	Activity Location	Alphanumeric	2
8	41	Authority Owner	Alphanumeric	2
9	43	Authority Type	Alphanumeric	1

Data Elements for ACA_AUTHORITY:

No.	Pos.	Data Element Name	Type	Size
4	22	Issue Date	Date: YYYYMMDD	8
5	30	Revoke Date	Date: YYYYMMDD	8
6	38	Repository Established	Alphanumeric	1

A4 - ALN_AREA_EVENT

File Name: A4.DAT

Primary Key for ALN_AREA_EVENT:

No.	Pos.	Data Element Name	Type	Size
1	1	EPA Handler ID	Alphanumeric	12
2	13	Area Sequence Number	Alphanumeric	4
3	17	EPA Handler ID	Alphanumeric	12
4	29	Event Code Owner	Alphanumeric	2
5	31	Event Code	Alphanumeric	7
6	38	Event Sequence Number	Alphanumeric	3
7	41	Event Responsible Agency	Alphanumeric	1
8	42	Event Activity Location	Alphanumeric	2

A5 - ALN_EVENT_AUTHORITY

File Name: A5.DAT

Primary Key for ALN_EVENT_AUTHORITY:

No.	Pos.	Data Element Name	Туре	Size
1	1	EPA Handler ID	Alphanumeric	12
2	13	Event Code Owner	Alphanumeric	2
3	15	Event Code	Alphanumeric	7
4	22	Event Sequence Number	Alphanumeric	3
5	25	Event Responsible Agency	Alphanumeric	1
6	26	Event Activity Location	Alphanumeric	2
7	28	EPA Handler ID	Alphanumeric	12
8	40	Authority Type Owner	Alphanumeric	2
9	42	Authority Type	Alphanumeric	1
10	43	Authority Effective Date	Date: YYYYMMDD	8
11	51	Authority Responsible Agency	Alphanumeric	1
12	52	Authority Activity Location	Alphanumeric	2

A6 - LU_CA_EVENT

File Name: A6.DAT

Primary Key for LU_CA_EVENT:

No.	Pos.	Data Element Name	Type	Size
1	1	Owner	Alphanumeric	2
2	3	Corrective Action Event Code	Alphanumeric	7

Data Elements for LU_CA_EVENT:

No.	Pos.	Data Element Name	Type	Size
3	10	Corrective Action Event Active Status	Alphanumeric	1
4	11	Corrective Action Event Description	Alphanumeric	80

A7 - LU_AUTHORITY

File Name: A7.DAT

Primary Key for LU_AUTHORITY:

No.	Pos.	Data Element Name	Туре	Size
1	1	Owner	Alphanumeric	2
2	3	Authority Type	Alphanumeric	1

Data Elements for LU_AUTHORITY:

No.	Pos.	Data Element Name	Type	Size
3	4	Authority Type Active Status	Alphanumeric	1
4	5	Authority Type Description	Alphanumeric	50

A1 - AAREA

File Name: A1.DAT

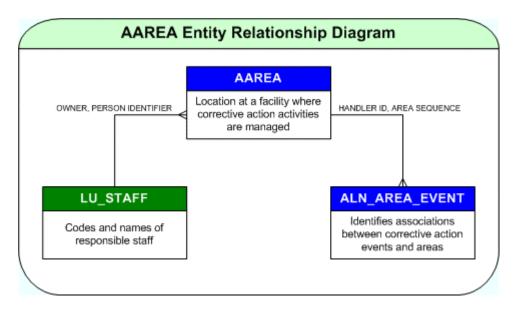
Primary Key for AAREA:

No.	Pos.	Data Element Name	Type	Size
1	1	EPA Handler ID	Alphanumeric	12
2	13	Area Sequence Number	Alphanumeric	4

Data Elements for AAREA:

No.	Pos.	Data Element Name	Type	Size
3	17	Area Facility-wide Indicator	Alphanumeric	1
4	18	Regulated Unit Indicator	Alphanumeric	1
5	19	Area Name	Alphanumeric	40

Entity Relationship Diagram



EPA Handler ID

Table: AAREA

Data Element Name: EPA Handler ID

Description: Foreign key to EPA Handler ID in HBASIC.

Area Sequence Number

Table: AAREA

Data Element Name: Area Sequence Number

Description: Code used for administrative purposes to uniquely

designate a group of units (or a single unit) with a common history and projection of corrective action

requirements.

Format: NUMBER(4)
Allowed Values: 0001 - 9999

Area Facility-wide Indicator

Table: AAREA

Data Element Name: Area Facility-wide Indicator

Description: Indicates that the corrective action applies to the

entire facility.

Format: CHAR(1)

Allowed Values: Y Yes

N No

Regulated Unit Indicator

Table: AAREA

Data Element Name: Regulated Unit Indicator

Description: Indicates that the corrective action applies to a

regulated unit.

Format: CHAR(1)

Allowed Values: X

Area Name

Table: AAREA

Data Element Name: Area Name

Description: Name or number assigned by the implementing

agency to identify a corrective action area.

Format: VARCHAR2(40)

Allowed Values: N/A

A2 - AEVENT

File Name: A2.DAT

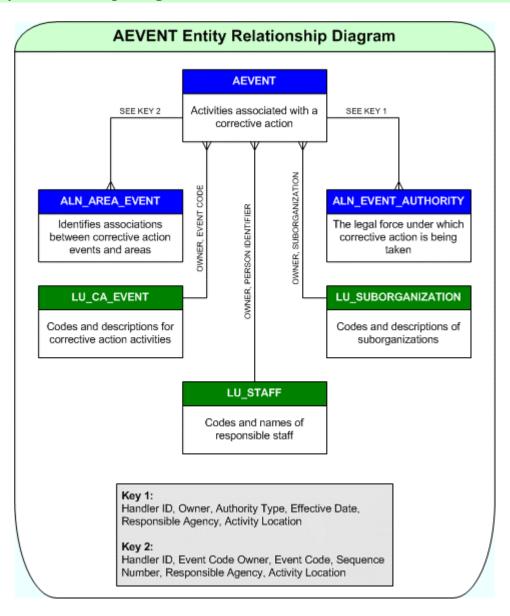
Primary Key for AEVENT:

No.	Pos.	Data Element Name	Type	Size
1	1	EPA Handler ID	Alphanumeric	12
2	13	Event Sequence Number	Alphanumeric	3
3	16	Event Responsible Agency	Alphanumeric	1
4	17	Event Activity Location	Alphanumeric	2
6	27	Corrective Action Event Owner	Alphanumeric	2
7	29	Corrective Action Event Code	Alphanumeric	7

Data Elements for AEVENT:

No.	Pos.	Data Element Name	Type	Size
5	19	Actual Date of Event	Date: YYYYMMDD	8

Entity Relationship Diagram



EPA Handler ID

Table: AEVENT

Data Element Name: EPA Handler ID

Description: Foreign key to EPA Handler ID in HBASIC.

Event Sequence Number

Table: AEVENT

Data Element Name: Event Sequence Number

Description: System-generated value used to uniquely identify

multiple occurrences of a corrective action event.

Format: NUMBER(3)
Allowed Values: 001 - 999

Event Responsible Agency

Table: AEVENT

Data Element Name: Event Responsible Agency

Description: Code indicating the agency responsible for

overseeing a specific corrective action event.

Format: CHAR(1)

Allowed Values: E EPA

S State
J Joint

O Other or voluntary CA event if State

entered the data

P Other or voluntary CA event if EPA

Region entered the data

Event Activity Location

Table: AEVENT

Data Element Name: Event Activity Location

Description: Indicates the location of the agency regulating the

activity.

Format: CHAR(2)

Allowed Values: State postal code

Corrective Action Event Owner

Table: AEVENT

Data Element Name: Corrective Action Event Owner

Description: Foreign key to Owner in LU CA EVENT.

Corrective Action Event Code

Table: AEVENT

Data Element Name: Corrective Action Event Code

Description: Foreign key to Corrective Action Event Code in

LU CA EVENT.

Actual Date of Event

Table: AEVENT

Data Element Name: Actual Date of Event

Description: Date on which actual completion of a corrective

action event occurs.

Format: DATE

Allowed Values: Valid date not greater than today's date

A3 - ACA_AUTHORITY

File Name: A3.DAT

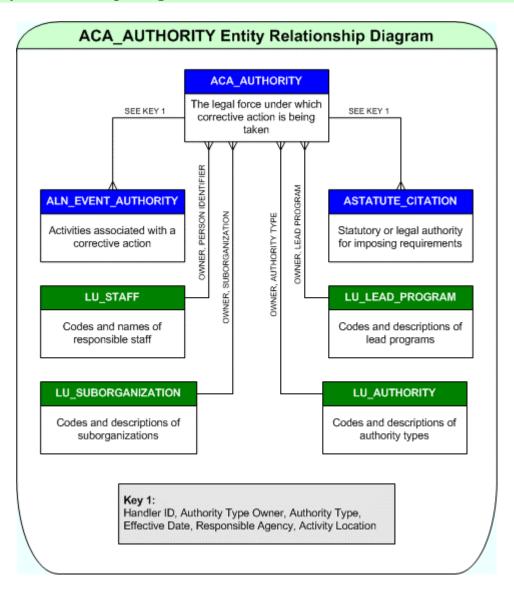
Primary Key for ACA_AUTHORITY:

No.	Pos.	Data Element Name	Type	Size
1	1	EPA Handler ID	Alphanumeric	12
2	13	Effective Date	Date: YYYYMMDD	8
3	21	Responsible Agency	Alphanumeric	1
7	39	Activity Location	Alphanumeric	2
8	41	Authority Owner	Alphanumeric	2
9	43	Authority Type	Alphanumeric	1

Data Elements for ACA_AUTHORITY:

No.	Pos.	Data Element Name	Type	Size
4	22	Issue Date	Date: YYYYMMDD	8
5	30	Revoke Date	Date: YYYYMMDD	8
6	38	Repository Established	Alphanumeric	1

Entity Relationship Diagram



EPA Handler ID

Table: ACA_AUTHORITY

Data Element Name: EPA Handler ID

Description: Foreign key to EPA Handler ID in HBASIC.

Effective Date

Table: ACA AUTHORITY

Data Element Name: Effective Date

Description: For a permit modification the effective date is cited

in that document. For a unilateral order or consent decree it is the date the authorized agency official signs the order, unless a different date is cited within the order. If the authority is on appeal, it is the date

when the appeal becomes effective.

Format: DATE

Allowed Values: Valid date

Responsible Agency

Table: ACA_AUTHORITY

Data Element Name: Responsible Agency

Description: Code indicating the agency responsible for

originating the specific order, permit or permit modification and for overseeing the activities

imposed by that authority.

Format: CHAR(1)

Allowed Values: E EPA

S State

J Joint

Activity Location

Table: ACA_AUTHORITY

Data Element Name: Activity Location

Description: Indicates the location of the agency regulating the

activity.

Format: CHAR(2)

Allowed Values: State postal code

Authority Owner

Table: ACA_AUTHORITY

Data Element Name: Authority Owner

Description: Foreign key to Owner in LU AUTHORITY.

Authority Type

Table: ACA AUTHORITY

Data Element Name: Authority Type

Description: Foreign key to Authority Type in

LU AUTHORITY.

Issue Date

Table: ACA_AUTHORITY

Data Element Name: Issue Date

Description: Date the authorized agency official signs the order,

permit, or permit modification.

Format: DATE

Allowed Values: Valid date

Revoke Date

Table: ACA_AUTHORITY

Data Element Name: Revoke Date

Description: The date when the corrective action authority is

revoked.

Format: DATE

Allowed Values: Valid date

Repository Established

Table: ACA_AUTHORITY

Data Element Name: Repository Established

Description: The action by which the Director requires the

owner/operator to establish and maintain an

information repository at a location near the facility for the purpose of making accessible to interested

parties documents, reports, and other public

information relevant to public understanding of the activities, findings, and plans for such corrective

action initiatives.

Format: CHAR(1)

Allowed Values: 1 N/A

2 Required, established

3 Required, not established

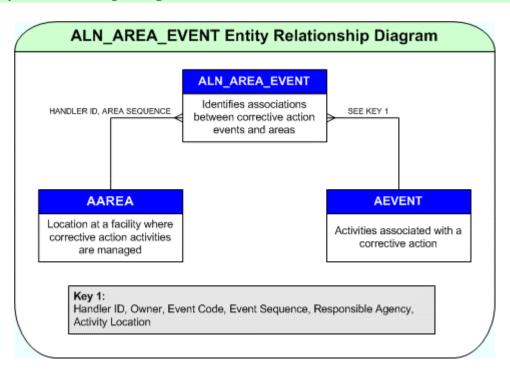
A4 - ALN_AREA_EVENT

File Name: A4.DAT

Primary Key for ALN_AREA_EVENT:

No.	Pos.	Data Element Name	Type	Size
1	1	EPA Handler ID	Alphanumeric	12
2	13	Area Sequence Number	Alphanumeric	4
3	17	EPA Handler ID	Alphanumeric	12
4	29	Event Code Owner	Alphanumeric	2
5	31	Event Code	Alphanumeric	7
6	38	Event Sequence Number	Alphanumeric	3
7	41	Event Responsible Agency	Alphanumeric	1
8	42	Event Activity Location	Alphanumeric	2

Entity Relationship Diagram



EPA Handler ID

Table: ALN_AREA_EVENT

Data Element Name: EPA Handler ID

Description: Foreign key to EPA Handler ID in AAREA.

Area Sequence Number

Table: ALN_AREA_EVENT

Data Element Name: Area Sequence Number

Description: Foreign key to Area Sequence Number in AAREA.

EPA Handler ID

Table: ALN AREA EVENT

Data Element Name: EPA Handler ID

Description: Foreign key to EPA Handler ID in AEVENT.

Event Code Owner

Table: ALN_AREA_EVENT

Data Element Name: Event Code Owner

Description: Foreign key to Corrective Action Event Owner in

AEVENT.

Event Code

Table: ALN_AREA_EVENT

Data Element Name: Event Code

Description: Foreign key to Corrective Action Event Code in

AEVENT.

Event Sequence Number

Table: ALN_AREA_EVENT

Data Element Name: Event Sequence Number

Description: Foreign key to Event Sequence Number in

AEVENT.

Event Responsible Agency

Table: ALN AREA EVENT

Data Element Name: Event Responsible Agency

Description: Foreign key to Event Responsible Agency in

AEVENT.

Event Activity Location

Table: ALN AREA EVENT

Data Element Name: Event Activity Location

Description: Foreign key to Event Activity Location in AEVENT.

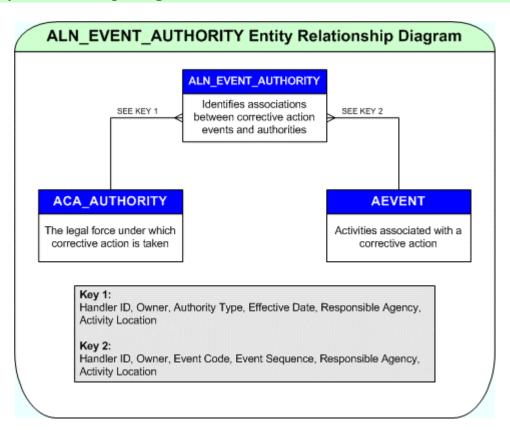
A5 - ALN_EVENT_AUTHORITY

File Name: A5.DAT

Primary Key for ALN_EVENT_AUTHORITY:

No.	Pos.	Data Element Name	Type	Size
1	1	EPA Handler ID	Alphanumeric	12
2	13	Event Code Owner	Alphanumeric	2
3	15	Event Code	Alphanumeric	7
4	22	Event Sequence Number	Alphanumeric	3
5	25	Event Responsible Agency	Alphanumeric	1
6	26	Event Activity Location	Alphanumeric	2
7	28	EPA Handler ID	Alphanumeric	12
8	40	Authority Type Owner	Alphanumeric	2
9	42	Authority Type	Alphanumeric	1
10	43	Authority Effective Date	Date: YYYYMMDD	8
11	51	Authority Responsible Agency	Alphanumeric	1
12	52	Authority Activity Location	Alphanumeric	2

Entity Relationship Diagram



EPA Handler ID

Table: ALN_EVENT_AUTHORITY

Data Element Name: EPA Handler ID

Description: Foreign key to EPA Handler ID in AAREA.

Event Code Owner

Table: ALN_EVENT_AUTHORITY

Data Element Name: Event Code Owner

Description: Foreign key to Corrective Action Event Owner in

AEVENT.

Event Code

Table: ALN EVENT AUTHORITY

Data Element Name: Event Code

Description: Foreign key to Corrective Action Event Code in

AEVENT.

Event Sequence Number

Table: ALN_EVENT_AUTHORITY

Data Element Name: Event Sequence Number

Description: Foreign key to Event Sequence Number in

AEVENT.

Event Responsible Agency

Table: ALN_EVENT_AUTHORITY

Data Element Name: Event Responsible Agency

Description: Foreign key to Event Responsible Agency in

AEVENT.

Event Activity Location

Table: ALN_EVENT_AUTHORITY

Data Element Name: Event Activity Location

Description: Foreign key to Activity Location in AEVENT.

EPA Handler ID

Table: ALN_EVENT_AUTHORITY

Data Element Name: EPA Handler ID

Description: Foreign key to EPA Handler ID in AEVENT.

Authority Type Owner

Table: ALN EVENT AUTHORITY

Data Element Name: Authority Type Owner

Description: Foreign key to Authority Owner in

ACA AUTHORITY.

Authority Type

Table: ALN_EVENT_AUTHORITY

Data Element Name: Authority Type

Description: Foreign key to Authority Type in

ACA_AUTHORITY.

Authority Effective Date

Table: ALN_EVENT_AUTHORITY

Data Element Name: Authority Effective Date

Description: Foreign key to Effective Date in

ACA AUTHORITY.

Authority Responsible Agency

Table: ALN EVENT AUTHORITY

Data Element Name: Authority Responsible Agency

Description: Foreign key to Responsible Agency in

ACA_AUTHORITY.

Authority Activity Location

Table: ALN_EVENT_AUTHORITY

Data Element Name: Authority Activity Location

Description: Foreign key to Activity Location in

ACA_AUTHORITY.

A6 - LU_CA_EVENT

File Name: A6.DAT

Primary Key for LU_CA_EVENT:

No.	Pos.	Data Element Name	Type	Size
1	1	Owner	Alphanumeric	2
2	3	Corrective Action Event Code	Alphanumeric	7

Data Elements for LU_CA_EVENT:

No.	Pos.	Data Element Name	Type	Size
3	10	Corrective Action Event Active Status	Alphanumeric	1
4	11	Corrective Action Event Description	Alphanumeric	80

Owner

Table: LU_CA_EVENT

Data Element Name: Owner

Description: Indicates the agency that defines the corrective

action event.

Format: CHAR(2)

Allowed Values: HQ Nationally required

US Nationally defined

01 - 10 Regions

State postal code

Corrective Action Event Code

Table: LU_CA_EVENT

Data Element Name: Corrective Action Event Code

Description: A code which corresponds to a specific event or

event type. The first two characters indicate the event category and the last three characters the

numeric event number.

Format: VARCHAR2(7)

Allowed Values: See Nationally Defined Values below.

Corrective Action Event Active Status

Table: LU CA EVENT

Data Element Name: Corrective Action Event Active Status

Description: Indicates whether the corrective action event is

currently applicable.

Format: CHAR(1)

Allowed Values: Y Yes

N No

Corrective Action Event Description

Table: LU_CA_EVENT

Data Element Name: Corrective Action Event Description

Description: English description of the corrective action event.

Format: VARCHAR2(80)

Allowed Values: N/A

Nationally Defined Values for Corrective Action Event Code

Event	Status	Definition	Nationally Required
CA010		RFA Initiation	No
CA050		RFA Completed	Yes
	RF	Assessment was an RFA	
	PA	Assessment was a PA-Plus	
CA060		Notice of Contamination	Yes
CA070	-	Determination of Need for an RFI	Yes
CA075		CA Prioritization	Yes
	НІ	Facility or area was assigned a high corrective action priority	
	ME	Facility or area was assigned a medium corrective action priority	
	LO	Facility or area was assigned a low corrective action priority	
CA100		RFI Imposition	Yes
	DC	Focused data collection required for stabilization evaluation	
CA110		RFI Workplan Received	No
CA120		RFI Workplan Modification Requested by Agency	No
CA140	-	RFI Workplan Notice of Deficiency Issued	No
CA150		RFI Workplan Approved	Yes
CA155		RFI Supplemental Information Requested by Agency	No
CA160	-	RFI Supplemental Information Received	No
CA170		RFI Supplemental Information Deemed Satisfactory	No
CA180		RFI Implementation Begun	No
CA190		RFI Report Received	No
CA195		FI Progress Reports Received	No
CA200		RFI Approved	Yes

CA210		CA Responsibility Referred to a Non-RCRA Federal Authority	Yes
	SF	Corrective Action at the facility or area referred to CERCLA	
	ОТ	Corrective Action referred to another non-RCRA Federal Authority.	
CA225		Stabilization Measures Evaluation	
	YE	This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.	
	NF	This facility is not amenable to stabilization activity at the present time, because it appears to be technically infeasible or inappropriate.	
	IN	This facility is not amenable to stabilization activity because of a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available.	
	NR	This facility is not amenable to stabilization activity at the present time for reasons other than 1) it appears to be technically infeasible or inappropriate (NF) or 2) there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations.	
CA250	-	CMS Imposition	No
CA260		CMS Workplan Received	No
CA270		CMS Workplan Modification Requested by Agency	No
CA300	-	CMS Workplan Approved	Yes
CA305		CMS Supplemental Information Requested by Agency	No
CA310		CMS Supplemental Information Received	No
CA320	-	CMS Supplemental Information Deemed Satisfactory	No
CA330		CMS Implementation Begun	No
CA340		CMS Report Received	No
CA345		CMS Progress Reports Received	No
CA350		CMS Approved	Yes
CA370		Petition for no Further Action Receipt Date	No
CA375		Decision on Petition for no Further Action	No
CA380		Date for Public Notice on Proposed Remedy	No

CA400		Date for Remedy Selection (CM Imposed)	Yes
CA410	-	Date to Submit Remedy Design	No
CA450		Corrective Measures Design Approved	Yes
CA460		Cost Estimate for Remedy Received	No
CA470	-	Financial Assurance for Remedy Demonstration	No
CA500		CMI Workplan Approved	Yes
CA510		Determination of Technical Impracticability	Yes
CA550		Certification of Remedy Completion or Construction Completion	Yes
CA600		Stabilization Measures Implemented	Yes
	SR	Primary measure is source removal and / or treatment (e.g., soil or waste excavation, in-situ soil treatment, off-site treatment).	
	EC	Primary measure is exposure control by barrier and / or institutional control (e.g., capping, fencing, deed restrictions).	
	GW	Groundwater extraction and treatment (e.g., to achieve groundwater containment, to achieve MCL).	-
	ОТ	Other Activity	
CA650		Stabilization Construction Completed	Yes
CA725		Human Exposures Controlled Determination	Yes
	IN	More information needed	
	NA	Previous determination no longer applicable as of this date	
	NC	No control measures necessary	
	NO	Facility does not meet definition	
	YE	Yes, applicable as of this date	
CA750		Groundwater Releases Controlled Determination	Yes
	IN	More information needed	
	NA	Previous determination no longer applicable as of this date	
	NO	Facility does not meet definition	
	NR	No release to groundwater	
	YE	Yes, applicable as of this date	

CA999		Corrective Action Process Terminated	Yes
	NF	No further action	
	RM	Remedial activities completed	

National Details for Corrective Action Event Code

CA010 - RFA Initiation

Table: Corrective Action Event

Event Code Name: CA010 - RFA INITIATION

Description: The event by which the State or EPA starts to conduct an

RFA. The result must include a determination as to whether

or not to proceed with an RFI at the facility.

Initiating Sources:

Nationally Required: No

Schedule Date: Date upon which a full or partial RFA is scheduled to be

initiated by an agency.

Actual Date: Date upon which a full or partial RFA is initiated by an

agency as indicated on the first page of standardized reporting

forms within the RFA document.

CA050 - RFA Completed

Table: Corrective Action Event

Event Code Name: CA050 - RFA COMPLETED

Description: The event by which the RFA is completed.

Status Codes:

RF Assessment was an RFA.**PA** Assessment was a PA-Plus.

Initiating Sources: Document with results of the RFA that determine if there is a

release or potential for release for the entire facility.

Nationally Required: Yes

Schedule Date: Date is scheduled to approve the result of the RFA.

Actual Date: The date upon which there is enough information to

determine if there is a release or potential for release for the entire facility is so documented. If no CA processing is necessary, Event Code 070, with a Status Code NO, which indicates that CA process is terminated, should be entered

after Event Code CA050-RFA Completed.

CA060 - Notice of Contamination

Table: Corrective Action Event

Event Code Name: CA060 - NOTICE OF CONTAMINATION

Description: Note: A condition of any permit or order should provide for

this notice of contamination or release of hazardous

constituents.

Receipt by the Agency of written notification that

contamination has been discovered at the RCRA facility and that the RCRA facility has notified all persons potentially impacted by the release of hazardous constituents. This event

is a "floater."

Initiating Sources: Facility Submission

Nationally Required: Yes Schedule Date: N/A

Actual Date:

CA070 - RFA Determination Of Need For An RFI

Table: Corrective Action Event

Event Code Name: CA070 - DETERMINATION OF NEED FOR AN RFI

Description: This event indicates whether an RFI or further investigation is

necessary to analyze the extent of contamination at this facility. An RFI is usually necessary when, after the initial assessment, there is evidence of or the likelihood of contamination release which poses a current or potential threat to human health and/or the environment. The event can be completed after the initial assessment (i.e. RFA or PAPlus). A status code should be entered at the same time as the

Status Codes:

date of the event.

YE RFI is Necessary; should be entered when further

investigation is needed.

NO RFI is Not Necessary; should be entered when

further investigation is not needed. "NO" may indicate that an RFI will not be needed at this site

because remediation is not necessary.

Initiating Sources: Regional or State determination upon review of an initial

facility assessment.

Nationally Required: Yes Schedule Date: None

Actual Date: Date of determination

CA075 - CA Prioritization

Table: Corrective Action Event

Event Code Name: CA075 - CA PRIORITIZATION

Description: This event indicates that a facility or area has been prioritized

using the National Corrective Action Prioritization System (NCAPS) or an equivalent system which has been approved by EPA Headquarters. A status code for the priority of the facility or area should be entered at the same time as the prioritization complete date. High, Medium, and Low determinations should be based on current national guidance.

Status Codes:

HI Facility or area was assigned a high corrective

action priority.

ME Facility or area was assigned a medium corrective

action priority.

LO Facility or area was assigned a low corrective action

priority.

Initiating Sources: The prioritization system results

Nationally Required: Yes

Schedule Date: Date prioritization is planned to be completed.

Actual Date: Date the facility has been given a priority through the use of

NCAPS.

Responsible Agency: EPA Regions are responsible for completing facility

prioritization and for entry of that data unless another

agreement has been reached between a Region and its States.

Guidance:

EPA originally intended the NCAPS ranking to be a facility level ranking, but some Regions and States have found it useful to rank areas as well. Ranking for areas within a facility is not required. The corrective action program will count a facility as High NCAPS priority if one or more areas at the facility have a High NCAPS ranking as the most current ranking.

CA075, which tracks facility priority derived through the National Corrective Action Prioritization System (NCAPS), was originally intended to track one ranking of High, Medium or Low NCAPS priority for the entire facility. As facilities are re-ranked because of more current information, or because of some action which changes the priority, the RCRIS system has the capability to reflect successive NCAPS rankings, while not allowing the original NCAPS rank to be

overwritten. [Note: NCAPS re-ranking of facilities/areas is not required.] This can be done by entering an additional NCAPS ranking with the new ranking date. Do not overwrite or erase the original ranking or subsequent ranking entries. This will enable us to have an historical record of facility priority, and to complete trend analyses. The most recent NCAPS ranking, by date, will be used for facility level data pulls.

CA100 - RFI Imposition

Table: Corrective Action Event

Event Code Name: CA100 - RFI IMPOSITION

Description: The event by which the State or EPA imposes an obligation

(via an Enforcement order, permit or permit modification, voluntary instrument, or state analogous program) upon the owner/operator of a facility regulated by RCRA or the equivalent state law to conduct an RFI at a facility.

Status Codes:

DC Focused data collection required for stabilization

evaluation.

Initiating Sources: Enforcement order, permit or permit modification, voluntary

instrument, or state analogous program.

Nationally Required: Yes

Schedule Date: Date the Director is expected to sign the Enforcement order,

permit or permit modification, voluntary instrument, or state

analogous document.

Actual Date: Date the Director signs the enforcement order, permit or

permit modification, voluntary instrument, or state analogous

document

CA110 - RFI Workplan Received

Table: Corrective Action Event

Event Code Name: CA110 - RFI WORKPLAN RECEIVED

Description: The event by which a RCRA facility submits an RFI

workplan to the State or EPA.

Initiating Sources: Facility submission

Nationally Required: Yes

Schedule Date: Due date is date in permit or order condition.

Actual Date: Date RFI workplan is date-stamped "received" by the State or

U.S. EPA.

Responsible Agency: EPA or State

CA120 - RFI Workplan Modification Requested By Agency

Table: Corrective Action Event

Event Code Name: CA120 - RFI WORKPLAN MODIFICATION REQUESTED

BY AGENCY

Description: The event by which the State or EPA requests that the RCRA

facility modify its RFI workplan.

Initiating Sources: Letter from the State or U.S. EPA to the facility.

Nationally Required: No Schedule Date: None

Actual Date: Date of letter

CA140 - RFI Workplan Notice Of Deficiency Issued

Table: Corrective Action Event

Event Code Name: CA140 - RFI - WORKPLAN NOTICE OF DEFICIENCY

ISSUED

Description: The event by which the State or EPA issues a Notice of

Deficiency to the Handler citing deficiencies in the proposed

RFI Workplan.

Initiating Sources: Notice of Deficiency from the EPA or State to the facility.

Nationally Required: No

Schedule Date: Date N.O.D. is scheduled to be sent to handler.

Actual Date: Date of N.O.D.

Responsible Agency: EPA or State

CA150 - RFI Workplan Approved

Table: Corrective Action Event

Event Code Name: CA150 - RFI WORKPLAN APPROVED

Description: The event by which the State or EPA approves the RFI

workplan submitted by the RCRA facility.

Initiating Sources: Letter from State or EPA approving the RFI plan prepared by

a facility in response to an order, permit, or permit

modification with a schedule of compliance imposing an RFI

obligation upon the facility.

Nationally Required: Yes

Schedule Date: Date the Director is expected to sign the letter.

Actual Date: Date the Director signs the letter.

CA155 - RFI Supplemental Information Requested By Agency

Table: Corrective Action Event

Event Code Name: CA155 - RFI SUPPLEMENTAL INFORMATION

REQUESTED BY AGENCY

Description: The event by which the State or EPA requests information

from the RCRA facility to modify, expand, amend, reexamine, or otherwise revisit the Workplan which had previously been approved but the report generated is not yet

sufficient.

Initiating Sources:

Nationally Required: No

Schedule Date:

Actual Date:

Responsible Agency: EPA or State

CA160 - RFI Supplemental Information Received

Table: Corrective Action Event

Event Code Name: CA160 - RFI SUPPLEMENTAL INFORMATION

RECEIVED

Description: The event by which the RCRA facility submits supplemental

RFI information.

Initiating Sources: Facility submission

Nationally Required: No

Schedule Date: Due date is date in permit or order condition, permit or order

modification, or letter from State or U.S. EPA requesting

supplemental information.

Actual Date: Date RFI supplemental information is date-stamped

"received" by the State or U.S. EPA.

CA170 - RFI Supplemental Information Deemed Satisfactory

Table: Corrective Action Event

Event Code Name: CA170 - RFI SUPPLEMENTAL INFORMATION

DEEMED SATISFACTORY

Description: The event by which the State or EPA formally approves the

RFI supplemental information.

Initiating Sources: Letter from State or U.S. EPA approving the RFI

supplemental information prepared by the facility.

Nationally Required: No

Schedule Date: Date the Director is expected to sign the letter.

Actual Date: Date the Director signs the letter.

Responsible Agency: EPA or State

CA180 - RFI Supplemental Implementation Begun

Table: Corrective Action Event

Event Code Name: CA180 - RFI IMPLEMENTATION BEGUN

Description: The event by which the RCRA facility committed to begin

any implementation in its Agency approved RFI Workplan.

Initiating Sources: Notification to State or U.S. EPA by facility, or on-site

observation by State or U.S. EPA

Nationally Required: No

Schedule Date: Date in order or permit condition, or date facility is expected

to begin implementation.

Actual Date: Date of notification or observation.

CA190 - RFI Report Received

Table: Corrective Action Event

Event Code Name: CA190 - RFI REPORT RECEIVED

Description: The event by which a RCRA facility submits a written

summary of the results of the approved RFI Workplan.

Initiating Sources: Report Nationally Required: No

Schedule Date: Date in permit or order condition, or date facility is expected

to submit report.

Actual Date: Date report is received by State or U.S. EPA.

Responsible Agency: EPA or State

CA195 - FI Progress Reports Received

Table: Corrective Action Event

Event Code Name: CA195 - FI PROGRESS REPORTS RECEIVED

Description: Receipt of reports submitted by the RCRA facility to the State

or EPA during execution of the approved RFI workplan. This

event is a "floater."

Initiating Sources: Reports
Nationally Required: No

Schedule Date: Dates in permit or order conditions.

Actual Date: Dates reports are received by State or U.S. EPA.

CA200 - RFI Approved

Table: Corrective Action Event

Event Code Name: CA200 - RFI APPROVED

Description: The event by which the State or EPA accepts the findings and

recommendations of the RFI report submitted by the RCRA facility. No entry should be made under this code until the RFI enables a formal agency decision to continue with CMS

or terminate the corrective action process.

Initiating Sources: Letter from the State or EPA notifying the facility of the

result of the RFI.

Nationally Required: Yes

Schedule Date: Date the Director is expected to sign the letter.

Actual Date: Date the Director signs the letter.

CA210 - CA Responsibility Referred To A Non-RCRA Federal Authority

Table: Corrective Action Event

Event Code Name: CA210 - CA RESPONSIBILITY REFERRED TO A NON-

RCRA FEDERAL AUTHORITY

Description: The facility or area has been referred to CERCLA or some

other Federal Non-RCRA authority. This does not imply that the RCRA program would lack the authority to go back to a RCRA facility that had been addressed under CERCLA or other non-RCRA Federal authority. It means that, as a matter of program policy, once a facility is referred CERCLA or other non-RCRA Federal authority, we would not actively monitor the progress of the facility and would not expect the facility to "return" to RCRA, barring some unforeseen event.

Status Codes:

SF Corrective Action at the facility or area referred to

CERCLA.

OT Corrective Action referred to another non-RCRA

Federal Authority.

Initiating Sources: Agency determination

Nationally Required: Yes Schedule Date: None

Actual Date: Date the Agency determines that corrective action at the

facility or area has been referred to CERCLA or some other

Federal Non-RCRA authority.

Responsible Agency: EPA

Guidance:

The national RCRA CA program does not expect to continue keeping track of the remedial events that have been completed once a facility has been referred to Superfund. That is not to say that the RCRA program would lack the authority to go back to a RCRA facility that had been addressed under CERCLA and request additional work. However, as a matter of program policy, once a facility is referred to CERCLA, we would not actively monitor the progress of the facility and would not expect the facility to "return" to RCRA, barring some unforeseen event.

This event should not be used for facilities that are only receiving an initial assessment (PA plus) from the Superfund program, but are expected to return to the RCRA program for the facility investigation and facility remediation steps.

However, if a RCRA facility, such as one that has converted to less than 90-day storage, has, as a matter or national policy, been deferred to the Superfund program and if, in the case specific circumstance, the Region or authorized state has clearly transferred this facility to the Superfund queue, then the "Referred to a Non-RCRA Federal Authority" event could be entered for these facilities.

Note: Regions and States are responsible for cleaning up old CA210 data. All reports for CA210 must use the status codes to insure that the correct information is pulled for the current definition of CA210. In cases where there is old no further action data, refer to the new CA999 status code, NF.

CA225 - Stabilization Measures Evaluation

Table: Corrective Action Event

Event Code Name: Description:

CA225 - STABILIZATION MEASURES EVALUATION

This event indicates that the feasibility and appropriateness of stabilization activities at this facility have been evaluated. This evaluation should be completed using the National Corrective Action Stabilization Questionnaire or a similar type of evaluation which asks the same range of questions. A status code should be entered for the areas covered by each evaluation. The status codes are consistent with the possible outcomes from the National Corrective Action Stabilization Ouestionnaire.

Status Codes:

YE This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.

NF This facility is not amenable to stabilization activity at the present time, because it appears to be technically infeasible or inappropriate.

IN This facility is not amenable to stabilization activity because of a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available.

NR This facility is not amenable to stabilization activity at the present time for reasons other than 1) it appears to be technically infeasible or inappropriate (NF) or 2) there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations

Initiating Sources: The completed National Corrective Action Stabilization

Ouestionnaire or similar review.

Nationally Required: Yes

Schedule Date: Date facility is expected to be evaluated for stabilization

measure.

Actual Date: The date the completed National Corrective Action

Stabilization Questionnaire or documentation of a similar

review is entered into the facility file.

Responsible Agency:

EPA or State authorized for corrective action

Guidance:

Stabilizations can be entered for the entire facility, or for certain areas at the facility.

CA250 - CMS Imposition

Table: Corrective Action Event

Event Code Name: CA250 - CMS IMPOSITION

Description: The event by which the State or EPA formally imposes the

obligation upon a RCRA facility to perform a Corrective

Measures Study (CMS).

Initiating Sources: Compliance Schedule or permit schedule of compliance.

Nationally Required: No

Schedule Date: Date the Director is expected to sign the order, permit, or

permit modification imposing the CMS requirement.

Actual Date: Date the Director signs the enforcement order, permit, or

permit modification imposing the CMS requirement.

Responsible Agency: EPA or State

CA260 - CMS Workplan Received

Table: Corrective Action Event

Event Code Name: CA260 - CMS WORKPLAN RECEIVED

Description: The event by which a RCRA facility submits a CMS

workplan to the State or EPA.

Initiating Sources: Facility submission

Nationally Required: No

Schedule Date: Due date is in permit or order condition.

Actual Date: Date CMS workplan is date-stamped "received" by the State

or U.S. EPA.

CA270 - CMS Workplan Modification Requested By Agency

Table: Corrective Action Event

Event Code Name: CA270 - CMS WORKPLAN MODIFICATION

REQUESTED BY AGENCY

Description: The event by which the State or EPA formally requests that

the RCRA facility modify its CMS workplan.

Initiating Sources: Letter from the State or U.S. EPA

Nationally Required: No Schedule Date: None

Actual Date: Date of letter Responsible Agency: EPA or State

CA300 - CMS Workplan Approved

Table: Corrective Action Event

Event Code Name: CA300 - CMS WORKPLAN APPROVED

Description: The event by which the State or EPA formally approves the

CMS plan submitted by the RCRA facility. No entry should be made under this code until the Agency intends for the

RCRA facility to begin conducting the CMS.

Initiating Sources: Letter from State or EPA approving the CMS plan prepared

by a facility in response to an order, permit, or permit

modification with a schedule of compliance imposing a CMS

obligation upon the facility.

Nationally Required: Yes

Schedule Date: Date the Director is expected to sign the letter.

Actual Date: Date the Director signs the letter.

CA305 - CMS Supplemental Information Requested By Agency

Table: Corrective Action Event

Event Code Name: CA305 - CMS SUPPLEMENTAL INFORMATION

REQUESTED BY AGENCY

The event by which the State or EPA requests the RCRA Description:

facility to modify, amend, revisit, reexamine, or re-conduct its

approved CMS.

Initiating Sources:

Nationally Required:

No

Schedule Date:

Actual Date:

Responsible Agency: EPA or State

CA310 - CMS Supplemental Information Received

Table: Corrective Action Event

Event Code Name: CA310 - CMS SUPPLEMENTAL INFORMATION

RECEIVED

Description: The event by which the RCRA facility submits an

amendment, modification, clarification, or other supplemental

information regarding the CMS.

Initiating Sources: Facility submission

Nationally Required: No

Schedule Date: Due date is date in permit or order condition, permit or order

modification, or letter from State or U.S. EPA requesting

supplement.

Actual Date: Date CMS supplemental workplan is date stamped "received"

by the State or U.S. EPA.

EPA or State Responsible Agency:

CA320 - CMS Supplemental Information Deemed Satisfactory

Table: Corrective Action Event

Event Code Name: CA320 - CMS SUPPLEMENTAL INFORMATION

DEEMED SATISFACTORY

Description: The event by which the State or EPA formally approves the

CMS supplemental information.

Initiating Sources: Letter from State or U.S. EPA approving the CMS

supplemental information prepared by a facility.

Nationally Required: No

Schedule Date: Date the Director is expected to sign the letter.

Actual Date: Date the Director signs the letter.

Responsible Agency: EPA or State

CA330 - CMS Implementation Begun

Table: Corrective Action Event

Event Code Name: CA330 - CMS IMPLEMENTATION BEGUN

Description: The event by which a RCRA facility committed to any

implementation in its agency approved CMS Workplan.

Initiating Sources: Notification to State or U.S. EPA by facility or on-site

observation by State or U.S. EPA.

Nationally Required: No

Schedule Date: Date in permit or order condition, or date facility is expected

to begin implementation.

Actual Date: Date report is received by State or U.S. EPA.

CA340 - CMS Report Received

Table: Corrective Action Event

Event Code Name: CA340 - CMS REPORT RECEIVED

Description: The event by which a RCRA facility submits a written

summary of the results of the approved CMS workplan.

Initiating Sources: Report Nationally Required: No

Schedule Date: Date in permit or order condition, or date facility is expected

to submit report.

Actual Date: Date report is received by State or U.S. EPA.

Responsible Agency: EPA or State

CA345 - CMS Progress Reports Received

Table: Corrective Action Event

Event Code Name: CA345 - CMS PROGRESS REPORTS RECEIVED

Description: Receipt of reports submitted by the RCRA facility to State or

EPA during execution of the approved CMS workplan. This

event is a "floater."

Initiating Sources: Reports
Nationally Required: No

Schedule Date: Dates in permit or order conditions.

Actual Date: Dates reports are received by State or U.S. EPA.

CA350 - CMS Approved

Table: Corrective Action Event

Event Code Name: CA350 - CMS APPROVED

Description: The event by which the State or EPA approves the final CMS

report submitted by the RCRA facility. No entry should be made under this code until sufficient data, information, has been provided to the Agency so that a decision to continue or

terminate the corrective action process can be made.

Initiating Sources: Letter from State or EPA approving the final CMS plan

prepared by a facility in response to an order, permit, or permit modification with a schedule of compliance imposing

a CMS obligation upon the facility.

Nationally Required: Yes

Schedule Date: Date the Director is expected to sign the letter.

Actual Date: Date the Director signs the letter.

Responsible Agency: EPA or State

CA370 - Petition For No Further Action Receipt Date

Table: Corrective Action Event

Event Code Name: CA370 - PETITION FOR NO FURTHER ACTION

RECEIPT DATE

Description: Receipt by the Agency of a permit modification requested by

the RCRA facility to eliminate any remaining corrective action steps which are included as conditions in the RCRA

facility's permit. This event is a "floater."

Initiating Sources:

Nationally Required: No

Schedule Date:

Actual Date:

CA375 - Decision On Petition For No Further Action

Table: Corrective Action Event

Event Code Name: CA375 - DECISION ON PETITION FOR NO FURTHER

ACTION

Description: The event by which the State or EPA formally approves the

petition by the RCRA facility for no further action.

Initiating Sources:

Nationally Required: No

Schedule Date: Actual Date:

Responsible Agency: EPA or State

CA380 - Date For Public Notice On Proposed Remedy

Table: Corrective Action Event

Event Code Name: CA380 - DATE FOR PUBLIC NOTICE ON PROPOSED

REMEDY

Description: The event by which the State or EPA sends public notice that

a proposed remedy has been tentatively selected for a RCRA

facility. The public notice should specify where the documents upon which the Agency made its decision are located and when they are available for public review.

Initiating Sources:

Nationally Required: No

Schedule Date:

Actual Date:

CA400 - Date For Remedy Selection (CM Imposed)

Table: Corrective Action Event

Event Code Name: CA400 - DATE FOR REMEDY SELECTION (CM

IMPOSED)

Description: The event that the State or EPA formally notifies the RCRA

facility to initiate the corrective measure that has been proposed in the notification process and is hereby incorporated into the RCRA facility's permit or order.

Initiating Sources: Permit, permit modification, or enforcement order specifying

the corrective measures remedy for a facility or a letter from the Director to the facility owner/operator approving the corrective measures remedy selected by the facility in response to a permit, permit modification, or enforcement order requiring the facility to select a remedy or a decision based on the results of an RFI that further corrective measures

are not necessary.

Nationally Required: Yes

Schedule Date: Date the Director is expected to approve the RFI document

showing no need for corrective measures or the date the facility is expected to be directed to initiate a corrective

measures program under a final order or permit.

Actual Date: Date the permit, permit modification, or enforcement order is

issued specifying the corrective measures remedy or the date a letter to the facility is signed by the Director approving the corrective measures remedy selected in response to a permit, permit modification or enforcement order, or the date a letter

is signed by the Director to the facility owner/operator

indicating that further corrective measures are not necessary.

CA410 - Date To Submit Remedy Design

Table: Corrective Action Event

Event Code Name: CA410 - DATE TO SUBMIT REMEDY DESIGN

Description: The event that the RCRA facility submits complete, detailed

design drawings of the remedy and its corresponding

implementation schedule.

Initiating Sources:

Nationally Required: No

Schedule Date: Actual Date:

Responsible Agency: EPA or State

CA450 - Corrective Measures Design Approved

Table: Corrective Action Event

Event Code Name: CA450 - CORRECTIVE MEASURES DESIGN

APPROVED

Description: The event by which the State or EPA formally notifies the

RCRA facility that the design of the corrective measure is

acceptable.

Initiating Sources: Enforcement order, permit, or permit modification containing

the corrective measures design for the facility, or a letter from the Director to the facility owner/operator approving the design prepared in response to a schedule of compliance in a permit, permit modification or enforcement order requiring

the facility to prepare a corrective measures design.

Nationally Required: Yes

Schedule Date: Date the Director is expected to sign approval of the

corrective measures design.

Actual Date: Date the permit, permit modification or enforcement order

containing the corrective measures design is issued or the date

the Director signs a letter to the facility owner/operator approving the corrective measures design prepared in response to schedule of compliance in a permit, permit

modification or enforcement order.

CA460 - Cost Estimate For Remedy Received

Table: Corrective Action Event

Event Code Name: CA460 - COST ESTIMATE FOR REMEDY RECEIVED

Description: The event by which EPA or State receives a cost estimate for

completing the remedy that the RCRA facility must

implement.

Initiating Sources: Written estimate submitted by the facility.

Nationally Required: No

Schedule Date: Date in permit or order condition, or date facility is expected

to submit estimate to State or U.S. EPA.

Actual Date: Date written estimate is received by the State or U.S. EPA.

Responsible Agency: EPA or State

CA470 - Financial Assurance For Remedy Demonstration

Table: Corrective Action Event

Event Code Name: CA470 - FINANCIAL ASSURANCE FOR REMEDY

DEMONSTRATION

Description: Demonstration by the RCRA facility that it has established

the appropriate financial assurance to complete the remedy.

Initiating Sources: Written demonstration of financial assurance submitted by the

facility.

Nationally Required: No

Schedule Date: Date in permit or order condition, or date facility is expected

to submit demonstration to the State or U.S. EPA.

Actual Date: Date written demonstration is received by the State or U.S.

EPA.

CA500 - CMI Workplan Approved

Table: Corrective Action Event

Event Code Name: CA500 - CMI WORKPLAN APPROVED

Description: The event by which the State or EPA approves the Corrective

Measure Implementation Program Plan, Construction Plans and Specification, Design Reports, Cost Estimates, Project Schedule, Operation and Maintenance Plan, Study Reports,

Construction Quality Assurance Program

Plan/Documentation and the Corrective Measure

Implementation Report incorporating comments received on

draft submissions.

Initiating Sources:

Nationally Required: Yes

Schedule Date:

Actual Date: Date signed by Director.

Responsible Agency: EPA or State

CA510 - Determination Of Technical Impracticability

Table: Corrective Action Event

Event Code Name: CA510 - DETERMINATION OF TECHNICAL

IMPRACTICABILITY

Description: The event by which the State or EPA formally notifies the

RCRA facility that the selected remedy cannot be accomplished because it is technically impracticable.

Initiating Sources:

Nationally Required: Yes

Schedule Date:

Actual Date:

CA550 - Certification Of Remedy Completion Or Construction Completion

Table: Corrective Action Event

Event Code Name: CA550 - CERTIFICATION OF REMEDY COMPLETION

OR CONSTRUCTION COMPLETION

Description: The event by which the State or EPA formally notifies the

RCRA facility that it accepts its certification that the remedy specifications in the permit or order have been met, and that the specified remedy or remedies has been completed, and/or operation and maintenance requirements only remain in order

to maintain this level of performance.

Initiating Sources: Written acknowledgement, placed in the facility file, stating

that the projected activity has been completed.

Nationally Required: Yes

Schedule Date: Date the activity is determined to be completed.

Actual Date: Date the Director signs the final order, permit, or written

acknowledgement.

Responsible Agency: EPA or State

Guidance:

Data entered previously for this event will generally not need to be changed. Since the previous definition covered CMI completed it has been assumed that this data will, if anything, represent actions that are "more complete" than those that may be entered under this revised definition.

CA600 - Stabilization Measures Implemented

Table: Corrective Action Event

Event Code Name: Description:

CA600 - STABILIZATION MEASURES IMPLEMENTED

EPA's or the State's notification or written acknowledgement to the RCRA facility that a stabilization activity or activities are required or otherwise being undertaken. The notification mechanism could be an Enforcement order, order modification, permit, or permit modification or similar enforceable state authority requiring the facility to undertake stabilization activity; it may also take the form of a written acknowledgement from EPA or the State that stabilization activity is being undertaken. The notification or acknowledgement must contain written stabilization objectives, goals, performance standards, or desired results. The stabilization activity must control or abate threats to human health and/or the environment from releases, and/or prevent or minimize the further spread of contamination.

Note: from 10/25/91 RCRA stabilization strategy, overall goal of stabilization.

Status Codes:

SR Primary measure is source removal and/or treatment (e.g., soil or waste excavation, in-situ soil treatment, off-site treatment).

Primary measure is exposure control by barrier and/or institutional control (e.g., capping, fencing, deed restrictions).

GW Groundwater extraction and treatment (e.g., to achieve groundwater containment, to achieve MCL).

OT Other Activity

Note: More than one status code may be entered for the same area.

Note: These status codes are different from the current status codes in CA600. The FA and FI codes will now be shown on the implementer level only. Although Regions and authorized States are not required to update the RCRIS database by entering new status code values for facilities which had a

CA600 before the beginning of FY 1994, such data

improvements are strongly encouraged.

Initiating Sources: Enforcement order, order modification, permit, permit

modification, similar enforceable state authority requiring the

facility to undertake stabilization activity, or written acknowledgement from the EPA Region that stabilization

activity is being undertaken.

Nationally Required: Yes

Schedule Date: Date the Director is expected to sign the final order, order

modification, permit, permit modification, or written

acknowledgement.

Actual Date: Date the Director signs the final order, order modification,

permit, permit modification, or written acknowledgement.

Responsible Agency: EPA or State

Guidance: The status codes for this event provide information on the

types of stabilization actions that are being implemented. This information is routinely requested in Congressional inquiries and will be helpful to Headquarters in characterizing national

implementation efforts.

CA650 - Stabilization Construction Completed

Table: Corrective Action Event

Event Code Name: CA650 - STABILIZATION CONSTRUCTION

COMPLETED

Description: The event by which the State or EPA formally notifies the

RCRA facility that the interim measures undertaken have been completed to the satisfaction of the Agency; and/or the event by which the State or EPA formally notifies the RCRA facility

that stabilization objectives have been met, but require

continued operation and maintenance to maintain this level of

performance.

Initiating Sources: Letter from the EPA or the State Director to the facility or an

internal written memorandum acknowledging stabilization completion and/or construction completion--conducted through a final order, order modification, permit, permit modification, or written acknowledgement of that the activity has occurred from EPA or the State--transmitted within the

government to the facility file.

Nationally Required: Yes

Schedule Date: Date the activity is expected to be completed.

Actual Date: Date the activity is completed.

Responsible Agency: EPA or State

Guidance:

The proposed change to CA650 involves a refinement as to what stabilization completed should mean for the CA program. It was recommended that the corrective action program take credit nationally for stabilization efforts that are clearly completed, such as excavations, but also for those efforts that are performing to meet the Agency's stabilization objectives, yet require continued operation and maintenance to maintain this level of performance. As a result of this recommendation, the definition for CA650 has been updated to incorporate these concepts.

The new definition allows "credit" once EPA or the State provides a written determination that the stabilization activity at a facility is completed in a manner that meets the stabilization objectives, goals, performance standards, or desired results. For example, an excavation is completed once the contaminated material has been removed in accordance with the objective of the stabilization measure. An additional example is a groundwater stabilization measure in which a pump and treat system has been constructed and is operating in a manner which achieves the stabilization objective even though continued operation and maintenance is

necessary to maintain this level of performance.

Data entered previously for this event will generally not need to be changed. Since the previous definition covered stabilization completed it has been assumed that this data will, if anything, represent actions that are "more complete" than those that may be entered under this revised definition.

CA725 - CMS Workplan Received

Table: Corrective Action Event

Event Code Name: CA725 - CURRENT HUMAN EXPOSURES UNDER

CONTROL

Description: Environmental Indicators (EI) are measures being used by the

RCRA Corrective Action program to go beyond programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two EI developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is

intended to be developed in the future.

A positive "Current Human Exposures Under Control" EI determination ("YE" status code) indicates that there are no "unacceptable" human exposures to "contamination" (i.e., contaminants in concentrations in excess of appropriate risk-based levels) that can be reasonably expected under current land- and groundwater-use conditions (for all "contamination" subject to RCRA corrective action at or from the identified facility [i.e., site-wide]).

While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near-term objectives which are currently being used as Program measures for the Government Performance and Results Act of 1993, GPRA). The "Current Human Exposures Under Control" EI are for reasonably expected human exposures under current land- and groundwater-use conditions ONLY, and do not consider potential future land- or groundwater-use conditions or ecological receptors. The RCRA Corrective Action program's overall mission to protect human health and the environment requires that Final remedies address these issues (i.e., potential future human exposure scenarios, future land and groundwater uses, and ecological receptors).

EI determinations must be reevaluated when the Agency/State becomes aware of significant changes at the facility.

Status Codes:

IN More information is needed to make a

determination.

Effective 2/5/1999 per revised program guidance: NA This code for "Previous determination no longer applicable as of this date" should no longer be used. Previously entered NA status codes should be updated, but may remain in the database until they are replaced by more recent codes.

NC Effective 2/5/1999 per revised program guidance: This code for "No control measures necessary" should no longer be used. Previously entered NC status codes should be updated, but may remain in the database until they are replaced by more recent codes.

NO Current human exposures are NOT under control.

Yes, Current Human Exposures Under Control YE has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Initiating Sources: Documentation Of Environmental Indicator

> **Determination** form signed by preparer and his/her supervisor. Signed hardcopies of the form should reside in the administrative file for the facility. These forms should also be kept in electronic format that can be posted on an "EI database" web site developed by the Office of Solid Waste. The web site for completed forms is currently under development. However, blank EI guidance forms are available

at www.epa.gov/epaoswer/osw.

Nationally Required: Yes, data for this event will be accessible by Headquarters.

Schedule Date: Date this event is anticipated.

Actual Date: Date that the EPA or State documents that the facility has

achieved the event, or that the event determination is no

longer applicable.

Responsible Agency: EPA or State

Guidance:

The RCRA corrective action program and achievement of its Government Performance Results Act (GPRA) goals are of highest priority for the national RCRA program. The RCRA program is using two Environmental Indicators (EI) to measure program performance for GPRA purposes: (1) Current Human

Exposures Under Control (CA725), and (2) Migration of Contaminated Groundwater Under Control (CA750).

On 2/5/1999 revised interim-final guidance for RCRA Corrective Action Environmental Indicators was issued which replaces the EI guidance promulgated in 1994 and 1995. This will remain the working guidance for at least one year. The interim-final guidance is similar to the earlier guidance but has been modified to facilitate more consistent determinations (across regions and states) and to be more explicit with regard to the minimum level of documentation required to ensure that the determinations will be verifiable. The guidance was developed with the cooperation and input of representatives from all ten EPA regions and at least one state from each region.

The guidance is in the form of questions to be answered in making an EI determination. The question and answer options express the minimum criteria for EI determination and are not to be modified for regional, state or site-specific conditions. Standard forms/worksheets entitled **Documentation of**Environmental Indicator Determination were developed for CA725 and CA750 which will assist regions and states in making EI determinations and at the same time, formally document the determination process. Signed hardcopies of the forms should reside in the administrative file for the facility. These forms should also be kept in electronic format that can be posted on an "EI database" web site developed by the Office of Solid Waste. The web site for completed forms is currently under development. However, blank EI guidance forms are available for downloading at www.epa.gov/oswer/osw.

Note: A summary of guidance contained on the form for CA725 – Current Human Exposures Under Control follows. This text is largely from the 2/5/99 Interim-Final EI guidance; however, the text has been summarized and slightly modified to fit the format of the RCRIS Data Element Dictionary. EI determinations should not be made based solely on this DED text, and should be based on the full text of the 2/5/99 Interim-Final EI guidance.

The Human Exposures EI is a qualitative screening of exposures and the determinations made should not be used as the sole basis for restricting the scope of more detailed (e.g., site-specific) assessments of risk.

- 1. First, has **all** available relevant/significant information on known and reasonably suspected releases to soil, groundwater, surface water/sediments, and air, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units [SWMU], Regulated Units [RU], and Areas of Concern [AOC]), been **considered** in this EI determination?
 - -- If yes, proceed to step 2.

- -- If no, reevaluate existing data.
- -- If data are not available, skip to step 6 and indicate "IN" (more information needed) status code.
- 2. Second, are groundwater, indoor air¹, surface soil (e.g., <2 ft), surface water, sediment, subsurface soil (e.g. >2 ft) or outdoor air **media** known or reasonably suspected to be "**contaminated**" above appropriately protective risk-based "levels" (applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action (from SWMUs, RUs or AOCs)?
 - -- If yes (for any media), proceed to step 3 after identifying key contaminants in each "contaminated" medium, citing appropriate "levels" (or provide an explanation for the determination that the medium could pose an unacceptable risk), and referencing supporting documentation.
 - -- If no (for all media), skip to step 6, and indicate "YE," status code after providing or citing appropriate "levels," and referencing sufficient supporting documentation demonstrating that these "levels" are not exceeded.
 - -- If unknown (for any media), skip to step 6 and indicate "IN" status code.

Footnotes for Step 2:

¹Recent evidence (from the Colorado Dept. of Public Health and Environment, and others) suggest that unacceptable indoor air concentrations are more common in structures above groundwater with volatile contaminants than previously believed. This is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration necessary to be reasonably certain that indoor air (in structures located above [and adjacent to] groundwater with volatile contaminants) does not present unacceptable risks.

- ² "Contamination" and "contaminated" describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriately protective risk-based "levels" (for the media, that identify risks within the acceptable risk range).
- 3. Third, are there **complete pathways** between "contamination" and human receptors such that exposures can be reasonably expected under the current (landand groundwater-use) conditions?

For each "contaminated" media (groundwater, indoor air, surface soil, surface water, sediment, subsurface soil), evaluate potential *Human Receptors* under current conditions (residents, workers, day care, construction, trespassers,

recreation, food³). Determine "yes" or "no" for potential "completeness" under each "Contaminated" Media -- Human Receptor combination (Pathway). Use Summary Pathway Evaluation Table provided on EI Determination form.

- -- If yes (pathways are complete for any "Contaminated" Media Human Receptor combination), proceed to step 4 after providing supporting explanation.
- -- If no (pathways are not complete for any contaminated media-receptor combination), skip to step 6, and indicate "YE" status code, after explaining and/or referencing condition(s) in-place, whether natural or man-made, preventing a complete exposure pathway from each contaminated medium.
- -- If unknown (for any "Contaminated" Media Human Receptor combination), skip to step 6 and indicate "IN" status code.

Footnote for Step 3:

³Indirect Pathway/Receptor (e.g., vegetables, fruits, crops, meat and dairy products, fish, shellfish, etc.)

- 4. Fourth, can the **exposures** from any of the complete pathways identified in step 3 be reasonably expected to be "**significant**" (i.e., potentially "unacceptable" because exposures can be reasonably expected to be: 1) greater in magnitude (intensity, frequency and/or duration) than assumed in the derivation of the acceptable "levels" (used to identify the "contamination"); or 2) the combination of exposure magnitude (perhaps even though low) and contaminant concentrations (which may be substantially above the acceptable "levels") could result in greater than acceptable risks)?
 - -- If yes (exposures could be reasonably expected to be "significant" (i.e., potentially "unacceptable") for any complete exposure pathway), continue to step 5 after providing a description (of each potentially "unacceptable" exposure pathway) and explaining and/or referencing documentation justifying why the exposures (from each of the remaining complete pathways) to "contamination" (identified in step 3) are not expected to be "significant."
 - -- If no (exposures can not be reasonably expected to be significant (i.e., potentially "unacceptable") for any complete exposure pathway), skip to step 6 and indicate "YE" status code after explaining and/or referencing documentation justifying why the exposures (from each of the complete pathways) to "contamination" (identified in step 3) are not expected to be "significant."
 - -- If unknown (for any complete pathway), skip to step 6 and indicate "IN"

status code.

Footnote for Step 4:

⁴If there is any question on whether the identified exposures are "significant" (i.e., potentially "unacceptable") consult a human health Risk Assessment specialist with appropriate education, training and experience.

- 5. Fifth, can the "significant" **exposures** (identified in #4) be shown to be within **acceptable** limits?
 - -- If yes (all "significant" exposures have been shown to be within acceptable limits), continue to step 6 and indicate "YE" after summarizing and referencing documentation justifying why all "significant" exposures to "contamination" are within acceptable limits (e.g., a site-specific Human Health Risk Assessment).
 - -- If no (there are current exposures that can be reasonably expected to be "unacceptable"), continue to step 6 and indicate "NO" status code after providing a description of each potentially "unacceptable" exposure.
 - -- If unknown (for any potentially "unacceptable" exposure), continue to step 6 and indicate "IN" status code.
- 6. Sixth, check the appropriate RCRIS status codes for the Current Human Exposures Under Control EI event code (CA725), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination form (and attach appropriate supporting documentation as well as a map of the facility). Proceed to step 7.
 - -- YE Yes, "Current Human Exposures Under Control" has been verified. Based on a review of the information contained in this EI Determination, "Current Human Exposures" are expected to be "Under Control" at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.
 - -- NO "Current Human Exposures" are NOT "Under Control."
 - -- IN More information is needed to make a determination.
- 7. Seventh, ensure that RCRIS is updated. When entering a new status code or changing a previous determination (e.g., IN to YE), a new CA725 event record with the new date should be used instead of overwriting the old status code and the associated date in order to maintain an event history for the facility.

The Environmental Indicator event codes are "legitimate orphans" in RCRIS because they are considered facility-wide events. This means that the event should not be linked to an authority or an area. National reports will only pull unlinked EI data.

CA750 - Groundwater Releases Controlled Determination

Table: Corrective Action Event

Event Code Name: CA750 - MIGRATION OF CONTAMINATED

GROUNDWATER UNDER CONTROL

Description: Environmental Indicators (EI) are measures being used by the

RCRA Corrective Action program to go beyond

programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two EI developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is

intended to be developed in the future.

A positive "Migration of Contaminated Groundwater Under Control" EI determination ("YE" status code) indicates that the migration of "contaminated" groundwater has stabilized, and that monitoring will be conducted to confirm that contaminated groundwater remains within the original "area of contaminated groundwater" (for all groundwater "contamination" subject to RCRA corrective action at or from the identified facility [i.e., site-wide]). While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near-term objectives which are currently being used as Program measures for the Government Performance and Results Act of 1993, GPRA). The "Migration of Contaminated Groundwater Under Control" EI pertains ONLY to the physical migration (i.e., further spread) of contaminated ground water and contaminants within groundwater (e.g., non-aqueous phase liquids or NAPLs). Achieving this EI does not substitute for achieving other stabilization or final remedy requirements and expectations associated with sources of contamination and the need to restore, wherever practicable, contaminated groundwater to be suitable for its designated current and future uses.

EI determinations must be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Status Codes:

IN More information is needed to make a

determination.

NA Effective 2/5/1999 per revised program guidance: This code for "Previous determination no longer applicable as of this date" should no longer be used. Previously entered NA status codes should be updated, but may remain in the database until they are replaced by more recent codes.

NO Unacceptable migration of contaminated groundwater is observed or expected.

NR Effective 2/5/1999 per revised program guidance: This code for "No release to groundwater" should no longer be used. Previously entered NR status codes should be updated, but may remain in the database until they are replaced by more recent codes.

YE Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Initiating Sources: **Documentation Of Environmental Indicator**

Determination form signed by preparer and his/her supervisor. Signed hardcopies of the forms should reside in the administrative file for the facility. These forms should also be kept in electronic format that can be posted on an "EI database" web site developed by the Office of Solid Waste. The web site for completed forms is currently under development. However, blank EI guidance forms are available for downloading at www.epa.gov/oswer/osw.

Yes, data for this event will be accessible by Headquarters.

Schedule Date: Date this event is anticipated.

Actual Date: Date that the EPA or State documents that the facility has

achieved the event, or that the event documentation is no

longer applicable.

Responsible Agency: EPA or State

Nationally Required:

Guidance:

The RCRA corrective action program and achievement of its Government Performance Results Act (GPRA) goals are of highest priority for the national RCRA program. The RCRA program is using two Environmental Indicators (EI) to measure program performance for GPRA purposes: (1) Current Human Exposures Under Control (CA725), and (2) Migration of Contaminated Groundwater Under Control (CA750).

On 2/5/1999 revised interim-final guidance for RCRA Corrective Action Environmental Indicators was issued which replaces the EI guidance promulgated in 1994 and 1995. This will remain the working guidance for at least one year. The interim-final guidance is similar to the earlier guidance but has been modified to facilitate more consistent determinations (across regions and states) and to be more explicit with regard to the minimum level of documentation required to ensure that the determinations will be verifiable. The guidance was developed with the cooperation and input of representatives from all ten EPA regions and at least one state from each region.

The guidance is in the form of questions to be answered in making an EI determination. The question and answer options express the minimum criteria for EI determination and are not to be modified for regional, state or site-specific conditions. Standard forms/worksheets entitled **Documentation of Environmental Indicator Determination** were developed for CA725 and CA750 which will assist regions and states in making EI determinations and at the same time, formally document the determination process.

Signed hardcopies of the forms should reside in the administrative file for the facility. These forms should also be kept in electronic format that can be posted on an "EI database" web site developed by the Office of Solid Waste. The web site for completed forms is currently under development. However, blank EI guidance forms are available for downloading at www.epa.gov/oswer/osw.

Note: A summary of guidance contained on the form for CA750 – Contaminated Groundwater Under Control follows. This text is largely from the 2/5/99 Interim-Final EI guidance; however, the text has been summarized and slightly modified to fit the format of the RCRIS Data Element Dictionary. EI determinations should not be made based solely on this DED text, and should be based on the full text of the 2/5/99 Interim-Final EI guidance.

1. First, has **all** available relevant/significant information on known and reasonably suspected releases to the groundwater media, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units [SWMU], Regulated Units [RU], and Areas of Concern [AOC]), been **considered** in this EI determination?

- -- If no, reevaluate existing data
- -- If data are not available, skip to step 8 and indicate "IN" (more information needed) status code.
- 2. Second, is **groundwater** known or reasonably suspected to be "**contaminated**" above appropriately protective "levels" (i.e., applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action, anywhere at, or from, the facility?
 - -- If yes, proceed to step 3 after identifying key contaminants, citing appropriate "levels," and referencing supporting documentation.
 - -- If no, skip to step 8 and indicate "YE" status code, after citing appropriate "levels," and referencing supporting documentation to demonstrate that groundwater is not "contaminated."
 - -- If unknown, skip to step 8 and indicate "IN" status code.

Footnote for step 2:

¹ "Contamination" and "contaminated" describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriate "levels" (appropriate for the protection of the groundwater resource and its beneficial uses).

- 3. Third, has the **migration** of contaminated groundwater **stabilized** (such that contaminated groundwater is expected to remain within "existing area of contaminated groundwater" as defined by the monitoring locations designated at the time of this determination)?
 - -- If yes, proceed to step 4 after presenting or referencing the physical evidence (e.g., groundwater sampling/measurement/migration barrier data) and rationale why contaminated groundwater is expected to remain within the (horizontal or vertical) dimensions of the "existing area of groundwater contamination"²).
 - -- If no (contaminated groundwater is observed or expected to migrate beyond the designated locations defining the "existing area of groundwater contamination"²), skip to step 8 and indicate "NO" status code, after providing an explanation.
 - -- If unknown, skip to step 8 and indicate "IN" status code.

Footnote for step 3:

² "existing area of contaminated groundwater" is an area (with horizontal and

vertical dimensions) that has been verifiably demonstrated to contain all relevant groundwater contamination for this determination, and is defined by designated (monitoring) locations proximate to the outer perimeter of "contamination" that can and will be sampled/tested in the future to physically verify that all "contaminated" groundwater remains within this area, and that the further migration of "contaminated" groundwater is not occurring. Reasonable allowances in the proximity of the monitoring locations are permissible to incorporate formal remedy decisions (i.e., including public participation) allowing a limited area for natural attenuation.

- 4. Fourth, does "contaminated" groundwater **discharge** into **surface water** bodies?
 - -- If yes, proceed to step 5 after identifying potentially affected surface water bodies.
 - -- If no, skip to step 7 (and indicate a "YE" status code in step 8, if step 7 = yes) after providing an explanation and/or referencing documentation supporting that groundwater "contamination" does not enter surface water bodies.
 - -- If unknown, skip to step 8 and indicate "IN" status code.
- 5. Fifth, is the **discharge** of "contaminated" groundwater into surface water likely to be "**insignificant**" (i.e., the maximum concentration 3 of each contaminant discharging into surface water is less than 10 times their appropriate groundwater "level," and there are no other conditions (e.g., the nature, and number, of discharging contaminants, or environmental setting), which significantly increase the potential for unacceptable impacts to surface water, sediments, or eco-systems at these concentrations)?
 - -- If yes, skip to step 7 (and indicate "YE" status code in step 8 if step 7 = yes), after documenting: 1) the maximum known or reasonably suspected concentration³ of key contaminants discharged above their groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) provide a statement of professional judgement/explanation (or reference documentation) supporting that the discharge of groundwater contaminants into the surface water is not anticipated to have unacceptable impacts to the receiving surface water, sediments, or ecosystem.
 - -- If no (the discharge of "contaminated" groundwater into surface water is potentially significant), proceed to step 6 after documenting: 1) the maximum known or reasonably suspected concentration³ of each contaminant discharged above its groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) for any contaminants discharging into surface water in concentrations³ greater than

100 times their appropriate groundwater "levels," the estimated total amount (mass in kg/yr) of each of these contaminants that are being discharged (loaded) into the surface water body (at the time of the determination), and identify if there is evidence that the amount of discharging contaminants is increasing.

-- If unknown, skip to step 8 and indicate "IN" status code.

Footnote for step 5:

- ³ As measured in groundwater prior to entry to the groundwater-surface water/sediment interaction (e.g., hyporheic) zone.
- 6. Sixth, can the **discharge** of "contaminated" groundwater into surface water be shown to be "**currently acceptable**" (i.e., not cause impacts to surface water, sediments or eco-systems that should not be allowed to continue until a final remedy decision can be made and implemented⁴)?
 - -- If yes continue after either: 1) identifying the Final Remedy decision incorporating these conditions, or other site-specific criteria (developed for the protection of the site's surface water, sediments, and eco-systems), and referencing supporting documentation demonstrating that these criteria are not exceeded by the discharging groundwater; OR 2) providing or referencing an interim-assessment,⁵ appropriate to the potential for impact, that shows the discharge of groundwater contaminants into the surface water is (in the opinion of a trained specialists, including ecologist) adequately protective of receiving surface water, sediments, and eco-systems, until such time when a full assessment and final remedy decision can be made. Factors which should be considered in the interim-assessment (where appropriate to help identify the impact associated with discharging groundwater) include: surface water body size, flow, use/classification/habitats and contaminant loading limits, other sources of surface water/sediment contamination, surface water and sediment sample results and comparisons to available and appropriate surface water and sediment "levels," as well as any other factors, such as effects on ecological receptors (e.g., via bio-assays/benthic surveys or site-specific ecological Risk Assessments), that the overseeing regulatory agency would deem appropriate for making the EI determination.
 - -- If no (the discharge of "contaminated" groundwater can not be shown to be "**currently acceptable"**), skip to step 8 and indicate "NO" status code, after documenting the currently unacceptable impacts to the surface water body, sediments, and/or eco-systems.
 - -- If unknown, skip to step 8 and indicate "IN" status code.

Footnotes for step 6:

- ⁴ Note, because areas of inflowing groundwater can be critical habitats (e.g., nurseries or thermal refugia) for many species, appropriate specialist (e.g., ecologist) should be included in management decisions that could eliminate these areas by significantly altering or reversing groundwater flow pathways near surface water bodies.
- ⁵ The understanding of the impacts of contaminated groundwater discharges into surface water bodies is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration to be reasonably certain that discharges are not causing currently unacceptable impacts to the surface waters, sediments or eco-systems.
- 7. Seventh, will groundwater **monitoring** / measurement data (and surface water/sediment/ecological data, as necessary) be collected in the future to verify that contaminated groundwater has remained within the horizontal (or vertical, as necessary) dimensions of the "existing area of contaminated groundwater?"
 - -- If yes, continue after providing or citing documentation for planned activities or future sampling/measurement events. Specifically identify the well/measurement locations which will be tested in the future to verify the expectation (identified in step 3) that groundwater contamination will not be migrating horizontally (or vertically, as necessary) beyond the "existing area of groundwater contamination."
 - -- If no, indicate "NO" status code in step 8.
 - -- If unknown, indicate "IN" status code in step 8.
- 8. Eighth, check the appropriate RCRIS status codes for the Migration of Contaminated Groundwater Under Control EI (event code CA750), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination form (attach appropriate supporting documentation as well as a map of the facility).
 - -- YE Yes, "Migration of Contaminated Groundwater Under Control" has been verified. Based on a review of the information contained in this EI determination, it has been determined that the "Migration of Contaminated Groundwater" is "Under Control" at the facility. Specifically, this determination indicates that the migration of "contaminated" groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the "existing area of contaminated groundwater." This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

- -- NO Unacceptable migration of contaminated groundwater is observed or expected.
- -- IN More information is needed to make a determination.
- 9. Ninth, ensure that RCRIS is updated. When entering a new status code or changing a previous determination (e.g., IN to NO), a new CA750 event record with the new date should be used instead of overwriting the old status code and the associated date in order to maintain an event history for the facility.

The Environmental Indicator event codes are "legitimate orphans" in RCRIS because they are considered facility-wide events. This means that the event should not be linked to an authority or an area. National reports will only pull unlinked EI data.

CA999 - Corrective Action Process Terminated

Table: Corrective Action Event

Event Code Name: CA999 - CORRECTIVE ACTION PROCESS

TERMINATED

Description: This event indicates the completion of the corrective action

process; that active remedial measures as specified in the RCRA permit or enforcement order are completed for the

entire facility or for areas at the facility.

This event should be entered 1) after the Certification of Remedy Completion or Construction Completion (CMI Completed) (CA550), and/or 2) after a stabilization

measure(s) has been completed in a manner that meets the stabilization objectives, goals, performance standards, and/or desired results (CA650), **and** terminating corrective action at this point at the facility or area would satisfy all permit or

order requirements for CA.

Status Codes:

NF No Further Action

RM Remedial Activities Completed

Initiating Sources: Written acknowledgement, placed in the facility file, stating

that all projected activity has been completed.

Nationally Required: Yes

Schedule Date: Date the event is scheduled to be completed.

Actual Date: Date the sequence of events was completed.

Responsible Agency: EPA or State

Guidance:

This new definition clarifies the difference between CA210 and CA999. Regions have not been using these two events in a nationally consistent way, because national guidance has not been clear. CA999 means all remediation and stabilization has been completed at the facility or area of the facility and all requirements in facility permits and/orders have been satisfied for the facility or area. CA210 means that the work is being done by another Federal authority. Since CA999 is an important success measure the definition must be clear to ensure that Regions and States will use the event consistently.

Note: RCRIS reports that show data "collapsed" to the facility level will show CA999 for a facility only when (1) the code exists at the facility level (i.e., has not been linked to specific areas), or (2) the code has been linked to **all** areas if it has been linked to **any** area(s).

A7 - LU_AUTHORITY

File Name: A7.DAT

Primary Key for LU_AUTHORITY:

No.	Pos.	Data Element Name	Туре	Size
1	1	Owner	Alphanumeric	2
2	3	Authority Type	Alphanumeric	1

Data Elements for LU_AUTHORITY:

No.	Pos.	Data Element Name	Type	Size
3	4	Authority Type Active Status	Alphanumeric	1
4	5	Authority Type Description	Alphanumeric	50

Owner

Table: LU_AUTHORITY

Data Element Name: Owner

Description: Indicates the agency that defines the authority.

Format: CHAR(2)

Allowed Values: HQ Nationally required

US Nationally defined

01 - 10 Regions State postal code

Authority Type

Table: LU AUTHORITY

Data Element Name: Authority Type

Description: A code used to indicate whether a permit,

administrative order, or other authority has been issued to implement the corrective action process.

Format: CHAR(1)

Allowed Values: See Nationally Defined Values below.

Authority Type Active Status

Table: LU_AUTHORITY

Data Element Name: Authority Type Active Status

Description: Indicates whether the authority is currently

applicable.

Format: CHAR(1)
Allowed Values: Y Yes

N No

Authority Type Description

Table: LU_AUTHORITY

Data Element Name: Authority Type Description

Description: English description of the authority type.

Format: VARCHAR2(50)

Allowed Values: N/A

Nationally Defined Values for Authority Type

Code	Description		
A	Consent Order. An order issued by the Agency that is negotiated with a respondent. The terms of the order are discussed and agreed upon by both EPA and the respondent before the order is signed. A Consent Order has the same effect of a unilateral order, and therefore any violation of a consent order will result in an enforcement action.		
C	Consent Decree		
D	Judicial Decree . An order by the court to undertake some activity or pay a fine to the government for violating RCRA and/or its regulation. It is not the result of an administrative action. A judge may either approve a settlement proposed by the parties, or he/she can impose his/her own remedy.		
I	Interim Status		
J	Judicial Order		
M	Permit Modification		
N	Order Modification		
O	Operating Permit		
P	Post-Closure Permit		
S	State Analogous . Actions implemented using a State non-RCRA/HSWA analogous authority.		
U	Unilateral Order		
V	Voluntary CA		
X	Agency Policy/Procedure		
Z	Other		

Flat File Specification Glossary

Actual Date	The completion date of an event.
Allowed Values	Lists valid data values and their descriptions. "N/A" (not applicable) will be indicated for data elements that do not have a list of values.
Comments	Provides additional information on the data element.
Data Element Name	A short English description of the data element.
Data Elements	Column names and descriptions of data elements which are not part of the primary key.
Default Value	Indicates the value given to a data element if the user does not supply a value.
Description	An English description providing the general definition of the element.
Event Code Name	A name which corresponds to a specific event or event type.
Foreign Key	A key field that identifies records in a different table.
Format	Specifies the Oracle format of the data element including field type and length.
Implementer Defined Codes	Indicates implementer defined values for this element are allowed.
Initiating Source	Indicates the source of information for the data element (i.e., Notification Form, Part A Permit Application).
Nationally Required	Indicates whether the data element is necessary for the oversight of the RCRA program. Some computer-generated data elements are also considered nationally required because they are key fields to the RCRAInfo database.

Oracle Column Name	Oracle name which identifies the data element.	
Primary Key	Data elements that are used to uniquely identify a row in an Oracle table.	
Released	Indicates data that Headquarters may release to the public via Envirofacts, NTIS, RTKNet, FOIAs, Web Report postings, etc	
Responsible Agency	Code indicating the agency responsible for the event.	
Schedule Date	The date for which an event is targeted to occur.	
Source	Indicates the BRS form/location which was the source of the information.	
Sources of Update	Indicates the source of information to update the data element (i.e., EPA/State Inspection, Permit Modification)	
System Required	Indicates whether the element is necessary for data integrity and for proper functioning of RCRAInfo. Some system-required data elements are computer generated, but many must be provided by the user. The user cannot continue until all system required elements are complete.	